PRO Elite

Altitude CM-2100 Series Mini-Dome Camera

Network Fixed Cameras

- Dual-stream H.264/MPEG-4 Video
- Up to 2 x 30 FPS (NTSC)/25 (PAL)
- Multi-video Resolution up to D1
  - NTSC: 720x480 at 2x30 FPS
  - PAL: 720x576 at 2x25 FPS
- Wide Dynamic Range
- Bi-directional Audio
- SD Slot Available
- 2 Alarm Inputs / 1 Relay Output
- Unicast or Multicast
- Vandal Resistant Bubble and Housing
- Surface Mount (Standard), Recessed,Corner and Pendant Mount options
- 12VDC/24VAC and PoE Power Options
- IP66/NEMA 4 Rated
- Web Interface for Viewing, Configuration and Control

1/3 Inch CCD High Resolution H.264 / MPEG4 D1 Color and Day/Night Options

The Altitude CM-2100 series are high resolution, fixed mini-dome IP cameras which utilize "motorized lenses" for ease of installation and configuration, incorporate a high-resolution fully digital front end CCD imaging system and comes standard as a surface mount for indoor and outdor use supporting extended temperature ranges in outdoor installations. For infrared sensitivity, a 3.3-12mm Day/Night mechanical IR cut filter also comes standard. Additional configurations support 9-22mm lenses, Wide Dynamic Range, and a list of mounting options for performance in most environments.

The Altitude CM-2100 cameras are ideal in both indoor and outdoor installations and all types of environments. This camera is the preferred choice for use in Airports, Detentions/Prisons, Municipal applications, Seaports, Tollway/Traffic installations and more.

The CM-2100 reduces installation costs and features a unique no-tools modular snap-in chassis and advanced motorized vari-focal lens that can be fine-tuned via the network after the installation without going back out on the ladder or using a 2-man installation team. These features, as well as the fully automatic image quality settings, provide the highest image quality and consistent project results at the lowest possible installation costs.

The camera provides dual video streams in both H.264 and MPEG-4 (ISO) for up to 30 Frames Per Second (FPS) on one stream for viewing and recording with 100% image quality. This affords excellent image response and efficient bandwidth utilization.

In addition, DVTel's Scene Adaptive Algorithms provide the highest image quality at the lowest bandwidth and storage requirements. In most cases, these cameras can maintain high quality real-time 30/25FPS (NTSC/PAL) at D1 resolution starting at less than a megabit per stream.

Bi-directional audio is available for users to remotely listen in to the area surrounding the camera and communicate with visitors or intruders.

IEEE compliant, the entire Altitude Series of network cameras utilize the latest in multicast networking technology which enables a single stream to be transmitted to multiple viewers on the network simultaneously, further reducing bandwidth and providing more flexibility options for installation.

Power over Ethernet supplies power to the camera via the network, eliminating the need for additional cabling and reducing installation costs. The CM-2100 is power and rate adaptive based on supplied power and need and supports POE+/802.03at so you can deploy a fixed mini-dome camera in extreme environments with a single cable to run data and power.

DVTel offers a full line of IP cameras and encoders to meet your every need. Please see our IP Camera and Encoder Family Guide at www.dvtel.com/products/edge-devices to explore your options.

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General Specifications

Camera	Day/Night and Day/Night with WDR
Image Sensor	1/3" Sony ExView (Day/Night Color) CCD Sony SuperHAD II WDR (Day/Night WDR) CCD
Sensor Resolution	NTSC: 768x494, PAL: 752x582
Scanning Mode	Interlaced
Sensitivity	Color: 0.2 Lux @ F1.4 / Night Mode: 0.03 Lux @ F1.4
Lens Type	Vari-focal 3.3-12mm F1.4 Auto-iris Horizontal Viewing Angle: 24~90 degrees
White Balance	Auto (On/Off)
Automatic Gain Control (AGC)	On/Off
Backlight Compensation (BLC)	On/Off
Automatic Electronic Shutter (AES)	NTSC: 1/60 to 1/100,000 s, PAL: 1/50 to 110,000 s
Flickerless Mode	On/Off
Iris Control	DC Auto
Day/Night Mode	Auto / On/Off
Mechanical IR Cut Filter	Yes
IR Sensitivity	Yes: 680 to 1100nm
Signal to Noise Ratio (SNR)	≥50dB
Video	
Compression	Fully Compliant H.264 / MPEG4 (MPEG4-Part 2 & 10), Dual Stream
Frame Rate	NTSC: 2 x 30 FPS in all Resolutions and Compression Modes PAL: 2 x 25 FPS in all Resolutions and Compression Modes
Resolution Range	Scalable from CIF to D1 NTSC: 352x240 to 720x480, PAL: 352x288 to 720x576
Bandwidth	Configurable between 64 Kbps and 6 Mbps
Audio	
Bi-directional Audio	Line In/Mic In/Line Out, Compression G.711
Audio Connections	Terminal block
Communication	
Network Protocols	Transport: RTP (Unicast/multicast), UDP (Unicast/multicast), TCP Others: DNS, HTTP server, IGMP V1/V2, Telnet client and DHCP client
Ethernet	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)
Management	
Configuration	Remote: Via Web Access, Telnet or Supported Video Management Software
Firmware Upgrade	Flash memory for upgrade of camera firmware over the network
Regulatory	
USA	FCC part 15 (subpart B, class A) UL
Europe	CE marked, EN55022-1998 Class A, EN55024, RoHS
Warranty	
	2-year limited warranty, covering parts

Other Specifications

Alarm	
Input	Input 2 dry contacts
Output	1 Relay Contact, 60V AC/DC at 1000mA max.
Physical	
Enclosure	Vandal Aluminum Casting with Polycarbonate Bubble Compatible with 4S Electrical Box Mounting
Dimensions (dia x h)	148mm diameter x 135mm height 5.8" diameter x 5.3" height
Unit Weight	2.0 Lbs. (0.9Kg)
Unit Shipping Weight	2.6 Lbs. (1.2Kg)
Mechanical	
Bubble Rating	Vandal Resistant Polycarbonate
Bubble F-Stop	F0.0: Clear bubble F1.0: Smoke bubble (option)
Pan, Rotate and Tilt	360, 360 and +/-90 deg
Electrical	
Input Voltage	12VDC/24VAC ±10% or 802.3af PoE or 802.3at PoE+ (recommended outdoor)
Power Consumption	6W – up to 22W with Heater
Power Connector	AC/DC Terminal block or PoE
Environment	
Operating Temperature	-40°F to 122°F (-40°C to 50°C) outdoor
Storage Temperature	32° F to 140° F (0° C to 60° C)
Humidity	90% (non-condensing)
Ratings	IP66 and NEMA 4

Accessories - See Price Guide for Complete List

CX-SMOKE-0	Smoked Bubble		**CX-ARMX-0**	Short Wall Bracket
CM-RCSD-0	Recessed Kit		**CX-ARMX-1**	Long Wall Bracket
CX-TRIA-0	Interior Corner Mounting Kit		**CX-SWAN-0**	Swan/Roof Mount
CM-CAPX-0	Pendant Kit		**CX-POLE-0**	Pole Bracket

Camera Ordering Information

Type		Series		Resolution in MP	Intelligence Package		Imager Package	Option 1	Model
CM	–	2	1	0	1	–	X	1	N/P
Mini-Dome Camera	–	2 = Pro-Elite Series	1	0 = D1	1 = Intelligent Multi-Zone VMD	–	0 = D/N 3.3-12mm 1 = D/N 9-22MM 2 = WDR 3.3-12mm 3 = WDR 9-22MM	1 = Indoor/ Outdoor	N = NTSC P = PAL

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